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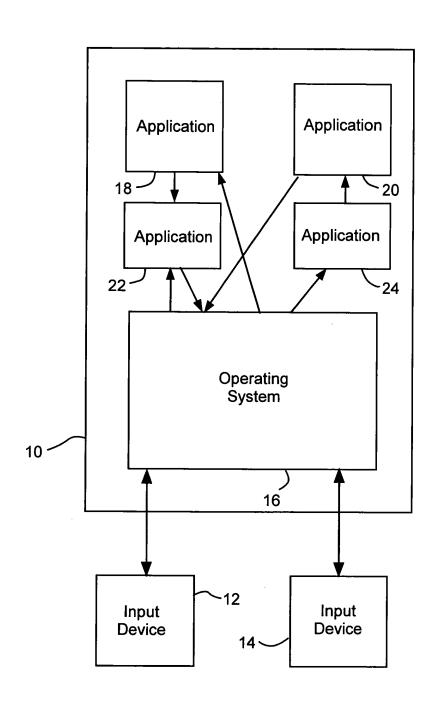Inventor: Herrod et al.
Docket No.: SYM-0625-1B
Page 1 of 7

Title: Configurable Operating System for I/O Connectivity
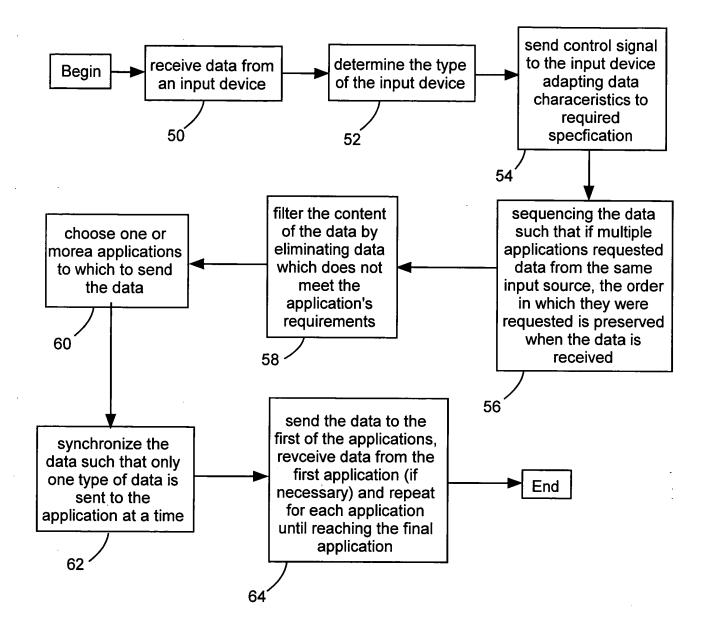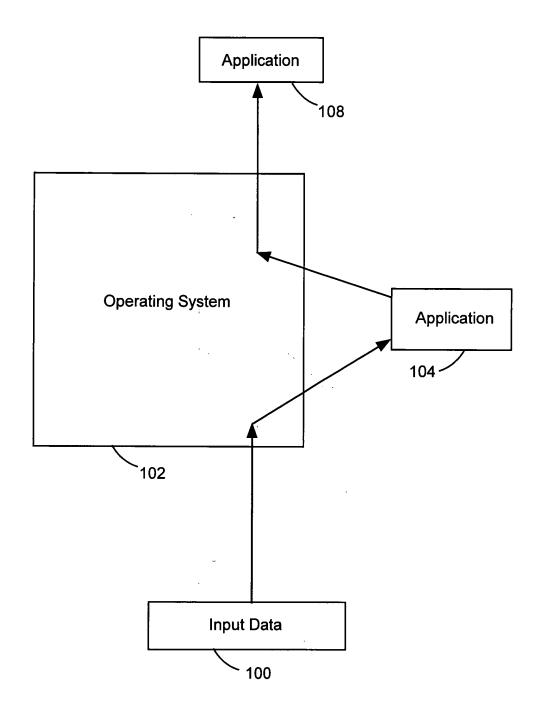Attorney: Kenneth D'Alessandro
Sierra Patent Group, Ltd.

Fig.1

```
┌─────────┐     ┌──────────────────┐     ┌──────────────────┐     ┌──────────────────┐
│  Begin  │────▶│ receive data from │────▶│ determine the type│────▶│ send control signal│
└─────────┘     │  an input device │     │ of the input device│    │ to the input device│
                └──────────────────┘     └──────────────────┘     │  adapting data    │
                        50                       52               │ characeristics to │
                                                                  │    required       │
                                                                  │   specfication    │
                                                                  └──────────────────┘
                                                                          54
```

Begin → receive data from an input device **50** → determine the type of the input device **52** → send control signal to the input device adapting data characeristics to required specfication **54**

choose one or morea applications to which to send the data **60** ← filter the content of the data by eliminating data which does not meet the application's requirements **58** ← sequencing the data such that if multiple applications requested data from the same input source, the order in which they were requested is preserved when the data is received **56**

synchronize the data such that only one type of data is sent to the application at a time **62** → send the data to the first of the applications, revceive data from the first application (if necessary) and repeat for each application until reaching the final application **64** → **End**

Fig.2

Application

108

Operating System

102

Application

104

Input Data

100

Fig.3

```
                    ┌──────────────────┐
                    │   Application    │
                    └──────────────────┘
                              ▲   ╲
                              │    108
                              │
         ┌─────────────────────────┐
         │                         │        ┌──────────────┐
         │                         │◄───────│ Application  │
         │                         │───────►└──────────────┘
         │    Operating System     │              106
         │                         │◄───────┐
         │                         │───────►┌──────────────┐
         │                         │        │ Application  │
         │                         ▲        └──────────────┘
         └─────────────────────────┘              104
                102      │
                         │
                         │
                ┌──────────────────┐
                │   Input Device   │
                └──────────────────┘
                         100
```
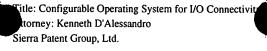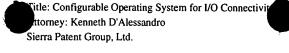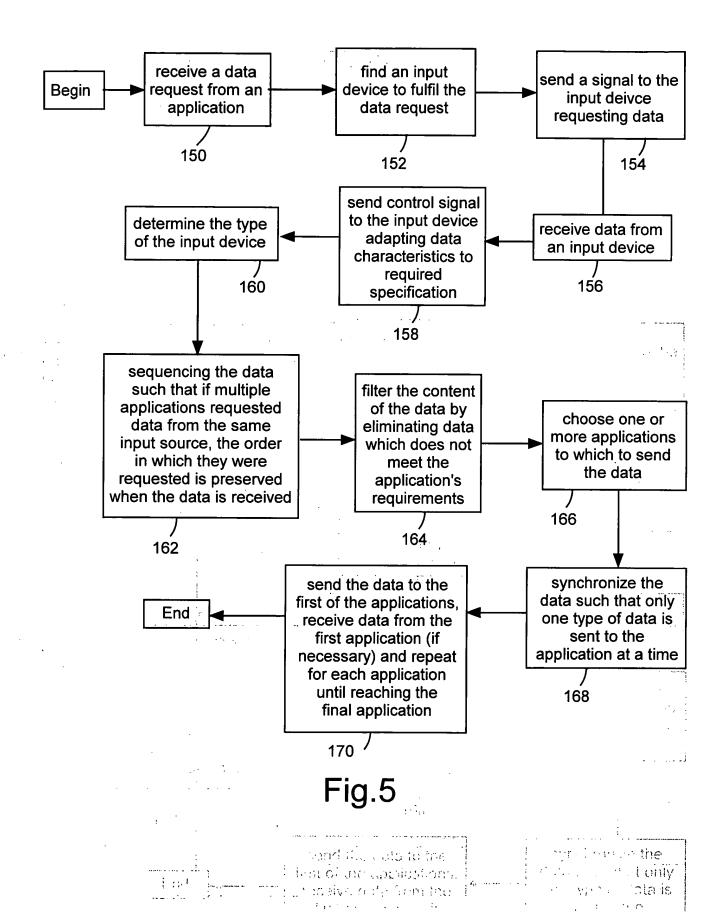
Fig.4

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```
┌─────────┐    ┌──────────────┐    ┌──────────────┐    ┌──────────────┐
│  Begin  │───▶│ receive a data│───▶│ find an input │───▶│ send a signal │
└─────────┘    │ request from  │    │ device to     │    │ to the input  │
               │ an application│    │ fulfil the    │    │ device        │
               └──────────────┘    │ data request  │    │ requesting    │
                      150          └──────────────┘    │ data          │
                                          152          └──────────────┘
                                                              154
```

receive a data request from an application — 150

find an input device to fulfil the data request — 152

send a signal to the input deivce requesting data — 154

determine the type of the input device — 160

send control signal to the input device adapting data characteristics to required specification — 158

receive data from an input device — 156

sequencing the data such that if multiple applications requested data from the same input source, the order in which they were requested is preserved when the data is received — 162

filter the content of the data by eliminating data which does not meet the application's requirements — 164

choose one or more applications to which to send the data — 166

synchronize the data such that only one type of data is sent to the application at a time — 168

send the data to the first of the applications, receive data from the first application (if necessary) and repeat for each application until reaching the final application — 170

End
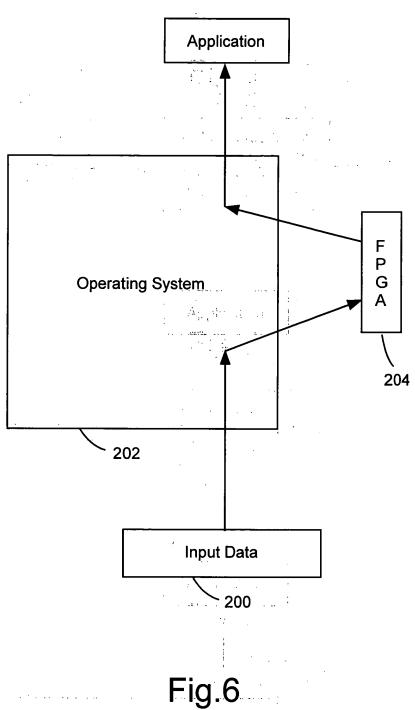
Fig.5

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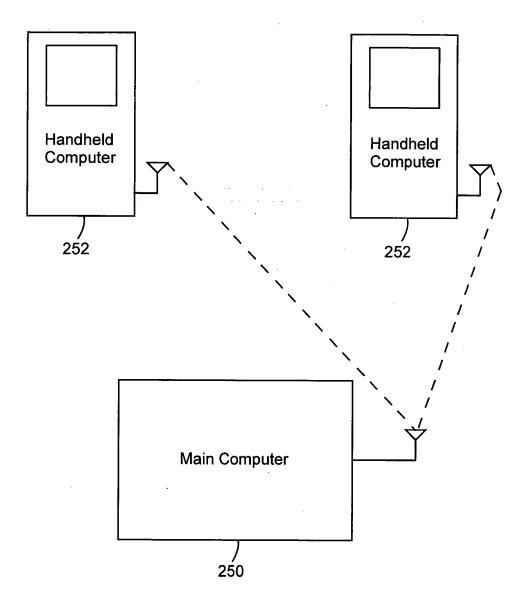
Sierra Patent Group, Ltd.

```
                        ┌─────────────────┐
                        │   Application   │
                        └─────────────────┘
                                 ▲
                                 │
        ┌────────────────────────────────┐        ┌─────┐
        │                        │        │        │  F  │
        │                        │        │◄───────│  P  │
        │                        │        │        │  G  │
        │    Operating System    │        │───────►│  A  │
        │                        │        │        └─────┘
        │                        ▲        │          \
        │                        │        │          204
        └────────────────────────────────┘
           202
                                 │
                        ┌─────────────────┐
                        │   Input Data    │
                        └─────────────────┘
                                  200
```

Fig.6

Handheld
Computer

252

Handheld
Computer

252

Main Computer

250

Fig.7